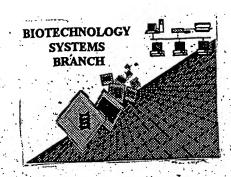
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/0/7 Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual - ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202,
- Hand Carry directly to: U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

TOOR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: /O/O/1, 512
RROR DETECTED	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWAR
TTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISHED THE STATE OF THE MAY OCCUR IT YOUR FILE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically, generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
8 Skipped Sequences (NEW RULES)	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,372

DATE: 01/02/2002 TIME: 11:25:32

m 1-3,5

Input Set : A:\61302.ST25.txt

Output Set: N:\CRF3\01022002\J017372.raw

Does Not Comply
Corrected Diskette Needed

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     6 <120> TITLE OF INVENTION: FUNCTIONALIZED TGF-BETA FUSION PROTEINS
             Letterio, John
      8 <130> FILE REFERENCE: 4239-61302
   10 <140> CURRENT APPLICATION NUMBER: US/10/017,372
C 10 <140 CURRENT APPLICATION NOTICE 10-19
C 10 <141 CURRENT FILING DATE: 2001-10-19
     10 <150> PRIOR APPLICATION NUMBER: 60/242,292
     11 <151> PRIOR FILING DATE: 2000-10-20
     13 <160> NUMBER OF SEQ ID NOS: 39
     15 <170> SOFTWARE: PatentIn version 3.1
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DATE: 01/02/2002

TIME: 11:25:32

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,372

Input Set : A:\61302.ST25.txt

Output Set: N:\CRF3\01022002\J017372.raw

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,372

Input Set : A:\61302.ST25.txt
Output Set: N:\CRF3\01022002\J017372.raw

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14	0	aag	TOU	Tare	Val	Glu	Gln	His	Val	Glu	Leu	Tyr	Gln	Lys	Tyr	Ser	Asn	
						165					170							576
14		ast.	tcc	†aa	cgc		ctc	agc	aac	cgg	ctg	ctg	gcc	CCC	agt	gac	tca	576
14	5	Men.	Ser	Tro	Arg	Tyr	Leu	Ser	Asn	Arg	Leu	Leu	Ala	Pro	-	Asp	Ser	
	_				100					כסו								624
		cca	σασ	taa	ctg	tcc	ttt	gat	gtc	acc	gga	gtt	gtg	cgg	cag	tgg -	ctg	624
14	.9	Pro	Glu	Trp	Leu	Ser	Phe	Asp	Val	Thr	Gly	Val	Val	MT 9	GIn	Trp	Leu	
									71101					200				672
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19	53	Thr	Arg	Arg	gag Glu	Ala	Ile	GIU	Gly	Phe	Arg	Leu	JCI	Ala	HIS	ser	Ser	
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15	56	tct	gac	agc	aaa	gat	aac	aca	ctc	cac	gtg	gaa	att	aac	999	Dhe	Δan	, _ ,
1!	57	Ser	Asp	Ser	Lys	Asp	Asn	Thr	Leu	His	Val	GIU	TTE	ASII	GIY	FIIC	240	
							ココロ					233					_	768
1	60	tct	ggc	cgc	cgg	ggt	gac	ctg	gcc	acc	att	cac	gge	Mot	Δan	Ara	ccc Pro	
1	61	Ser	Gly	Arg	Arg	Gly	Asp	Leu	Ala	Tnr	TTC	III	GIY	Mec	ASII	255		
						つょに					7.00							816
1	64	ttc	ctg	ctc	ctc	atg	gcc	acc	ccg	ctg	gay	ayy Ara	Δla	Gln	His	Leu	cac His	
1	65	Phe	Leu	Leu	Leu	Met	Ala	Thr	Pro	ь цец 265	GIU	AIG	AIG	0111	270		His	
1	66				260				+	202	rat	αac	gac	σac			ctg	864
1	68	agc	tcc	cgg	cac	cgc	cga	gac	m	Tue	Acr	Asn	Asp	Asp	Lys	Ala	ctg Leu	
			Ser	Arg	His	Arg	Arg	ASL	280	. шуз М	Lor	, ,,,,,,		285	5			
1	70			275) 		++0	200	. tcc	, י פכם	gag	aaq	aac	tgo	: tgc	gtg	g cgg Arg	912
1	72	gat	acc	aac	tac	tgc	Dho	cor	. Co.	, acy · Thr	Glu	LVS	Asn	Cys	. Cys	. Val	Arg	
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	.74		290		++		++0	cac	raac	r gac	cto	व व व	tgg:	gaag	g tgg	, att	cat His	960
1	.76	cag	CTC	tac	. all	. yac	Dhe	Δrc	r Tivs	Ast	Lei	ı Gly	Tr	Lys	rr Tr	, Ile	His	
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		305		~ ~~	. aa	, tac		- 00	aa¹	t tto	tgo	cto	ggg	g cc	c tgt	ccc	c tac	1008
1	180	gaa	1 CC	o Tare	9 99	, Ψ υ τ	His	. Ala	a Asi	n Phe	e Cys	s Let	ı Gly	y Pro	о Су	s Pro	o Tyr 5	
_						275					221	,					_	
	182		- + <i>a</i>	т эп	c cta		- 201	ca	ta	c ago	c aa	g gto	c ct	g gc	t ct	g ta	c aac r Asn	1056
_	104	: al	o Tri	n Se	r Tei	ı Ası	Th	c Gl	n Ty	r Se	r Ly:	s Vai	l Le	ı Al	u		r Asn	
_		-			211	٦				34	5					•		
			т са	c aa			g qc	g to	g gc	g gc	g cc	g tg	c tg	c gt	g cc	g ca	g gcg n Ala	1104
:	180	a Gl	n Hi	s As	n Pr	o Gl	y Al	a Se	r Al	a Al	a Pr	о Су	s Cy	5 1 4		o Gl	n Ala	
		_		2 5					- 35	()				50	_			
		۰	or ora	~ ~~	- at	q cc	c at	c gt	g ta	c ta	c gt	g gg	c cg	c aa	g cc	c aa	g gtg s Val	
	19:	3 Le	u Gl	u Pr	o Le	u Pr	o Il	e Va	l Ty	r Ty	r Va	l Gl	у Т	9 11	s Pr	о гл	s Val	
		4	27	^				- 37	5				30	U				1197
	10	<i>-</i>	~ ~-	~ at	g tc	c aa	c at	g at	c gt	g cg	t to	c tg	c aa	g tg	c ag	C 19	a	1101
	19	7 Gl	u Gl	n Le	u Se	r As	n Me	t Il	e Va	l Ar	g Se	r cy	5 п	s Cy	's Se	I		
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DATE: 01/02/2002

RAW SEQUENCE LISTING PATENT APPLICATION: US/10/017,372

TIME: 11:25:32

Input Set : A:\61302.ST25.txt

Output Set: N:\CRF3\01022002\J017372.raw

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207 <221> NAME	E/KEY: mis	C_reacur	1)				
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209 <223> OTHE	ER INFORMA	TION: Me	curaci				
211 <400> SEQ	JENCE: 9		. T.O.I T	eu Pro	Leu Leu	Leu Pro 1	Leu Leu
211 <400> SEQU 213 Met Ala Pi	ro Ser Gly	Leu Arg	, <u>n</u> cu -	10			15
214 1 217 Trp Leu L	5	-1 D-1	- Cl 11 A	ara Pro	Ala Ala	Gly Leu	Ser Thr
217 Trp Leu L	eu Val Leu	Thr Pro	O GIY F	25		30	
218 221 Cys Lys T	20		. Tau 1	zo Jal Twe	Ara Lys	Arg Ile	Glu Ala
221 Cys Lys T	hr Ile Asp	Met GI	и теп л	var hjb) - 1	45	
222 3	5	_	40	rou Ara	Ten Ala	Ser Pro	Pro Ser
222 3 225 Ile Arg G	ly Gln Il	e Leu Se	r Lys 1	Leu Ary	60		
226 50 229 Gln Gly A		55		Drc	clu Ala	val Leu	Ala Leu
229 Gln Gly A	sp Val Pr	o Pro Gl	y Pro .	Leu Pic	75		80
230 65 233 Tyr Asn S		70		.1. 61.	· Clu Ser	Val Glu	Pro Glu
233 Tvr Asn S	Ser Thr Ar	g Asp Ar	g Val	Ala Gi	y Giu bei		95
234	85			90	glu Val	Thr Ara	Val Leu
234 237 Pro Glu F	ero Glu Al	a Asp Ty	r Tyr	Ala Lys	5 GIU VAI	110	
237 110 014 -	100			105	T Dho	Twe Glv	Thr Pro
238 241 Met Val (Glu Ser Gl	y Asn Gl	n Ile	Tyr As	р гув ине	125	
241 MCC (42	115		120	_	al. Tou	Arg Glu	Ala Val
242 245 His Ser	Leu Tvr Me	t Leu Ph	ne Asn	Thr Se	r GIU Leu	Alg Glu	
245 RIB QC2 .		13	35		140	TOU TOU	Δra Leu
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249 PIO GIU	110 /42 -	150			155	T Myzr	Ser Asn
250 145 253 Lys Leu	Twe Val G	lu Gln H	is Val	Glu Le	u Tyr Gir	туу туг	175
253 Lys Leu	1	65		17	0	D Com	Ach Ser
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25/ Asp 3er	180	•		185		190	Trn Leu
258 261 Pro Glu	mrn Leu S	er Phe A	sp Val	Thr Gl	Ly Val Va	L Arg GIL	i iib nea
261 Pro Gru	105		200			205	cor Ser
262 265 Thr Arg	Arg Glu A	la Ile G	lu Gly	Phe A	rg Leu Se	r Ala His	; Ser Ser
265 Thr Arg	Alg Old	2	15		22	0	- Dho Aen
266 210 269 Ser Asp	Cor Tare A	sp Asn T	hr Leu	His V	al Glu Il	e Asn Gly	240
269 Ser Asp	ser hys r	230			235		240
270 225 273 Ser Gly	3 a 7 mm (lly Asp I	Leu Ala	Thr I	le His Gl	y Met Asi	1 Arg Pio
273 Ser Gly	Arg Arg	245		2	50		255
274 277 Phe Leu	Tou Tou	ret Ala '	Thr Pro	o Leu G	lu Arg Al	a Gln Hi	s Leu HIS
277 Phe Leu	Leu Leu i	Tec Ala		265		27	0
278 281 Ser Ser	200	Ara Ara	מאם שלים	r Lys A	sp Asp As	sp Asp Ly	s Ala Leu
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282 285 Asp Thr	275	ara Dho	Ser Se	r Thr G	lu Lys As	en Cys Cy	s Val Arg
285 Asp Thr	Asn Tyr	Cys Phe	295		- 3	00	
286 290 289 Gln Leu) -	a Dh-	Ard Tar	s Asp T	Leu Gly T	rp Lys Tr	p Ile His
289 Gln Leu	ı Tyr Ile	Asp Phe	чта па	r -	315		320
290 305 293 Glu Pro		310	71- 7-	n Dhe (rvs Leu G	ly Pro Cy	s Pro Tyr
293 Glu Pro	Lys Gly	Tyr His	ALA AS	11 1110	330		335
294 297 Ile Tr		325	al = m	r Car	rvs Val L	eu Ala Le	eu Tyr Asn
297 Ile Tr	p Ser Leu	Asp Thr	GIN TY	71 Ser . 345		3	50
298	340			242			





RAW SEQUENCE LISTING PATENT APPLICATION: US/10/017,372

DATE: 01/02/2002 TIME: 11:25:32

Input Set : A:\61302.ST25.txt

Output Set: N:\CRF3\01022002\J017372.raw

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323 atteatgaac ccaagggete catgecaatt tetgeetggg geeetgteee tacatetgga
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325 gcctagacac tcagtacagc aaggtcctgg ctctgtacaa ccagcacaac ccgggcgcgt
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327 cggcggcgcc gtgctgcgtg ccgcaggcgc tggagccact gcccatcgtg tactacgtgg
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 359 Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
                              55
  363 Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
  367 Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
                          70
  371 Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met
                      85
                                       105
                  100
  375 Ile Val Arg Ser Cys Lys Cys Ser
              115
  376
                                    Please covert this evor in.
subsequent sequences.
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  382 <213> ORGANISM (fusion
  384 <220> FEATURE:
   385 <221> NAME/KEY: CDS
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VERIFICATION SUMMARY PATENT APPLICATION: US/10/017,372

DATE: 01/02/2002 TIME: 11:25:33

Input Set : A:\61302.ST25.txt

Output Set: N:\CRF3\01022002\J017372.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date